

COMPAC QUARTZ

SAFETY DATA SHEET

2023

REV 1. 02/2023



COMPAC

## WARNING



This Safety Data Sheet (SDS) has been drawn up specifically for professionals (marble workers, installers, etc.) who mechanically process COMPAC Quartz materials. Please read the information below carefully.

COMPAC Quartz contains various amounts of crystalline silica. Processing it incorrectly or without adequate security measures may cause serious illnesses.

Request health and safety advice, apply all occupational safety measures necessary to meet regulatory requirements, and mitigate dust exposure.

Professionals who process this material have the responsibility to inform their employees about all hazards and risks and must ensure that the workplace complies with all relevant obligations, as well as applying all required health and safety measures in the workplace.

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## 1 - PRODUCT AND COMPANY IDENTIFICATION

- Product identification: COMPAC Quartz.
- Identifier of the substances contributing to the classification of the mixture: Crystalline silica ( $SiO_2$ ) (*quartz, cristobalite*).
- Identified uses: Agglomerated stone designed for interior use, mainly as kitchen and bathroom countertops, furniture, sinks, flooring, shower trays, cladding and other similar uses.
- Uses advised against: Do not mechanically process the material with dry methods for avoiding dust generation.
- Manufacturer information:

SILICALIA PORTUGAL INDÚSTRIA E COMÉRCIO DE AGLOMERADOS DE PEDRA, S.A.

E.N. 118, Vale do Feto

2205-304 Pego - Portugal

Tel.: +351 241 830 020

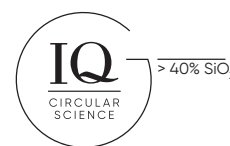
info@compac.es / www.compac.es

- Telephone in case of emergency: (toxicological information: +34 91 562 04 20).

## 2 - HAZARD IDENTIFICATION

### 2.1 - Classification of the substance or mixture

- Crystalline Silica Content:



\* IQpro and IQ products are identified with a label on their edges. If you require a specific crystalline silica content value, please contact the manufacturer.

- Titanium dioxide ( $TiO_2$ ) content: 0 - 3%

Pursuant to Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures, there are no dangers associated with COMPAC Quartz finished products. However, due to the content of crystalline silica ( $SiO_2$ ) such as quartz and/or cristobalite, machining this material (*cutting, polishing and other treatments*) can generate the emission of fine dust particles that remain suspended in the air, among them, respirable crystalline silica.

Massive inhalation of crystalline silica and this fraction of mineral dust can cause serious diseases such as pneumoconiosis, lung cancer, pulmonary fibrosis (*silicosis*), kidney disease, or chronic obstructive pulmonary disease (*COPD*).

The finished material is certified by the Greenguard Environmental Institute as a material that meets indoor air quality standards with respect to volatile organic compounds; therefore, COMPAC Quartz is suitable for use in indoor environments due to its low emissions of organics volatile compounds into the air. Similarly, this material has other certifications that guarantee its safety for health, such as the international NSF\* certificate which ensures that this material is food contact safe.

\* Information on NSF certified designs can be obtained at [www.nsf.org](http://www.nsf.org)

## 2.2 - Label elements

**Regulation (EC) No. 1272/2008 (CLP) / GHS ver. 7 / Directive 2004/37/EC:**

Hazard pictogram(s):



Warning word: **DANGER**

**Danger indications:**

**IQpro<sup>10</sup>**

- H373: May cause damage to organs (*lungs*) through prolonged or repeated exposure (*inhalation*).
- H350i: May cause cancer by inhalation.
- H335: May cause respiratory irritation.

**IQpro<sup>40</sup> y IQ**

- H372: Causes damage to organs (*lungs*) through prolonged or repeated exposure (*inhalation*).
- H350i: May cause cancer by inhalation.
- H335: May cause respiratory irritation.

**Precautionary statements:**

- P201: Obtain special instructions before use.
- P202: Do not handle (substances/mixtures) until all safety precautions have been read and understood.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash hands and face thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P284: Wear respiratory protection against airborne particles (at least P3 or N95).

**First-aid advice:**

- P314: Get Medical advice/attention if you feel unwell after using this material.
- P501: Dispose of waste material as per local regulations.

### 3 - COMPOSITION/INFORMATION ON COMPONENTS

- Substances: Not applicable.
- General description of the components of the mixture: this material is composed of inorganic mineral fillers (85-95%) including silica sand, quartz, cristobalite, crystal, glass, feldspar, in various proportions depending on the product; unsaturated polyester resin (5-15%) or resins of natural origin (Bio); and remaining components (<5%) pigments and additives.

Certain products may contain titanium dioxide ( $TiO_2$ ) (0-3%).

Substances making up the mixture and representing a danger to health or the environment according to Regulation (EC) No. 1272/2008:

Indicators	IUPAC Nomenclature	Category	Concentration	Classification – Regulation (EC) N°. 1272/2008 Directive 2004/37/EC
CAS No.: 14808-60-7 EC No.: 238-878-4 CAS No.: 14464-46-1 EC No.: 238-455-4	Crystalline Silica ( $SiO_2$ ): Quartz and cristobalite	IQpro <sup>10</sup>	1-10%	STOT RE 2, H373 STOT SE 3, H335 Carc. 1A, H350i
		IQpro <sup>40</sup> and IQ	11-90%	STOT RE 1, H372 STOT SE 3, H335 Carc. 1A, H350i
CAS No.: 13463-67-7 EC No.: 236-675-5	Titanium dioxide ( $TiO_2$ )	IQpro <sup>10</sup> , IQpro <sup>40</sup> and IQ	0-3%	Carc. 2, H351i

## 4 - FIRST-AID

### 4.1 - First aid description

No special measures are required for the finished material per se, but they are necessary for processing and fitting, as indicated below:

- General recommendations

Store in an easily accessible place and read this Safety Data Sheet carefully. Keep the product label before and after processing.

Move any affected persons away from the source of exposure and provide fresh air. Do not give the affected person anything to drink if they are unconscious.

Symptoms of poisoning may occur after exposure. In case of doubt or persistence of discomfort, get medical attention.

- Inhalation

Do not inhale the dust generated from processing this material. In case of poisoning symptoms, remove the affected person from the exposure area and provide fresh air. Apply assisted ventilation if necessary. Get medical attention.

- Skin contact

Wash with plenty of soap and water.

- Eye contact

Rinse immediately with plenty of water at room temperature for at least 15 minutes. Avoid rubbing eyes. Remove contact lenses if present and easy to do. Get medical attention if symptoms persist or worsen.

### 4.2 - Main acute symptoms and effects

- Inhalation

During the product machining process, a fine fraction of crystalline silica and mineral dust may remain suspended in the air, especially if the recommendations for processing with water supply and air filtration and extraction systems are not followed. Massive inhalation of this respirable fraction may cause serious diseases such as pneumoconiosis, lung cancer, pulmonary fibrosis (silicosis), kidney disease, or chronic obstructive pulmonary disease (COPD). The main symptoms of silicosis are coughing and shortness of breath.

## 5 - FIRE-FIGHTING MEASURES

### 5.1 - Extinguishing media

- Fire resistance: Category: Bfl – s1
- Suitable extinguishing agents: Any suitable agent against the type of surrounding fire. Polyvalent powder extinguishers are recommended.

### 5.2 - Special hazards arising from the substance or mixture:

Not combustible. No hazardous thermal decomposition.

### 5.3 - Recommendations for firefighting personnel In the event of a fire situation:

Depending on the magnitude of the fire, the use of full protective clothing and self-contained breathing apparatus may be necessary. Provide minimum of emergency facilities or action elements (*fire blankets, portable first aid kit...*) pursuant to R.D.486/1997 and subsequent amendments. Personal protective equipment: Depending on the surrounding fire.

## 6 - ACCIDENTAL SPILL MEASURES

Not applicable. Material presents no spill hazard.

## 7 - HANDLING AND STORAGE

### 7.1 - Manual handling

The handling of COMPAC Quartz does not require special measures. The user must carry out a risk assessment in accordance with current legislation on occupational risk prevention.



It is recommended to follow the following precautions:

- Use approved and certified safe handling systems (*cranes, hoists, slings, fastening devices, etc.*). Slings must be well cushioned, as the material is sharper than natural stone.
- Use the following individual protection equipment during handling and storage operations for COMPAC Quartz materials: helmet, safety shoes, gloves and protective glasses.
- It is extremely important that all mechanical processing of the material during preparation and installation of COMPAC Quartz slabs is carried out using tools with an integrated water system, or with a dust extraction system incorporated in the tool. Uncontrolled dry mechanical processing should be avoided, as the dust produced may contain respirable crystalline silica ( $SiO_2$ ).

Exposure to the dust produced must be controlled and monitored with control measures, such as:

- Natural and/or forced ventilation systems.
- Machines and tools with water supply systems.
- Cleaning and maintenance by vacuuming and/or water, avoiding sweeping and the use of compressed air. Implementing preventive maintenance of the facilities is recommended to guarantee the appropriate cleaning, ordering and operation of work equipment.

COMPAC provides a "Good Practices Guide" for working with its materials, available on our website [www.compac.es](http://www.compac.es) or by contacting [info@compac.es](mailto:info@compac.es) directly. These guidelines are NOT intended to replace or provide an exhaustive guide to existing legal obligations in terms of health and safety pursuant to applicable local regulations.

## 7.2 - Storage

No specific condition is required for the safe storage of COMPAC Quartz slabs, except that they should be stored in a closed and covered place to avoid impacts that may cause material breakage.

## 7.3 - Specific end uses

No specific recommendations for the end use of the product are available.



## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 - Occupational exposure limits

European Directive 2004/37/EC has been modified by European Directive 2017/2398 dated 12/27/2017 to include an occupational exposure limit value for the respirable fraction of crystalline silica of 0.1 mg/m<sup>3</sup> (at 20°C and 101.3 kPa).

Respirable dust fraction in the European Union:

Substance	Indicators	Country/Authority	Occupational exposure limits 8H TWA
Crystalline silica: Quartz Respirable fraction	CAS No.: 14808-60-7 EC No.: 238-878-4	Germany Luxembourg, Switzerland Belgium, Denmark, Slovakia, France, Greece, Lithuania, Norway, United Kingdom, Romania, Czech Republic, Sweden, Slovenia, Ireland, Lithuania, Hungary, Italy, Poland Bulgaria Cyprus Spain, Estonia, Finland, Austria Portugal Letonia Malta Netherlands	0.05 mg/m <sup>3</sup> 0.15 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup>  0.07 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> K/Q <sup>1</sup> 0.05 mg/m <sup>3</sup> 0.025 mg/m <sup>3</sup> - - 0.075 mg/m <sup>3</sup>
Crystalline silica: Cristobalite Respirable fraction	CAS No.: 14464-46-1 EC No.: 238-455-4	Germany Luxembourg, Switzerland Belgium, Denmark, Estonia, Spain, France, Greece, Lithuania, Norway, Romania, Sweden, Finland Bulgaria Letonia Slovakia, Hungary, United Kingdom, Czech Republic, Ireland, Italy, Poland Portugal Malta Netherlands	0.052 mg/m <sup>3</sup> 0.15 mg/m <sup>3</sup> 0.05 mg/m <sup>3</sup>  0.07 mg/m <sup>3</sup> - 0.1 mg/m <sup>3</sup>  0.025 mg/m <sup>3</sup> - 0.075 mg/m <sup>3</sup>
Inert powder Not specified Respirable fraction		Austria, Denmark, France, Greece, Norway, the Netherlands, Portugal Belgium, Italy, Spain Bulgaria, Ireland, United Kingdom Cyprus, Czech Republic, Estonia, Finland, Hungary, Latvia, Malta, Poland, Slovakia, Slovenia Germany Lithuania, Romania Luxembourg, Switzerland Sweden	5 mg/m <sup>3</sup>  3 mg/m <sup>3</sup> 4 mg/m <sup>3</sup> -  0.55 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> 6 mg/m <sup>3</sup> 2.5 mg/m <sup>3</sup>

Source: IMA-Europe. <https://www.nepsi.eu/workplace-exposure-crystalline-silica>

**Respirable dust fraction in the United States of America:**

Substance	QUARTZ (Respirable)	CRISTOBALITE (Respirable)	INERT DUST (Respirable)
CAS No.:	14808-60-7	14464-46-1	-
OSHA – PEL (TWA 8 hrs)	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
NIOSH – REL (TWA 10 hrs)	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	-
ACGIH – TLV (TWA 8 hrs)	0.025 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>	-
OEL name (if specific)	Permissible Exposure Level (PEL) / Recommended Exposure Value (REL) / Threshold Limit Value (TLV)		

Source: OSHA's Permissible Exposure Limits – Annotated Tables <https://www.osha.gov/dsg/annotated-pels>

**Respirable dust fraction in Australia and New Zealand:**

Substance	Crystalline silica: Quartz	Crystalline silica: Cristobalite
CAS No.:	14808-60-7	14464-46-1
AUSTRALIA OEL	Respirable dust 0.05 mg/m <sup>3</sup> (TWA 8 hrs)	Respirable dust 0.05 mg/m <sup>3</sup> (TWA 8 hrs)
NEW ZEALAND (WORKPLACE EXPOSURE STANDARDS)	Respirable dust 0.05 mg/m <sup>3</sup> (TWA 8 hrs)	Respirable dust 0.05 mg/m <sup>3</sup> (TWA 8 hrs)

Source: Workplace Exposure Standards for Airborne Contaminants – Safe Work Australia: <http://hcis.safeworkaustralia.gov.au/>; New Zealand Workplace exposure standards and biological exposure indices: <https://worksafe.govt.nz/topic-and-industry/work-related-health/monitoring/exposure-standards-and-biological-exposure-indices/countries>.

## Other substances with occupational exposure limit value:

Substance	Indicators	Country/Authority	Environmental limit / daily exposure value
Lampblack	CAS No.: 1333-86-4 CE No.:215-609-9	Spain	3.5 mg/m <sup>3</sup>
		USA	3.5 mg/m <sup>3</sup>
Titanium dioxide	CAS No.: 1333-86-4 CE No.:215-609-9	Spain	10 mg/m <sup>3</sup>
		USA	15 mg/m <sup>3</sup> (polvo total)
Calcium silicate	CAS No.: 1333-86-4 CE No.:215-609-9	Spain	10 mg/m <sup>3</sup>
		USA	5 mg/m <sup>3</sup> (frac. respirable)
Iron oxide (III) (dust and fumes), as iron (Fe)	CAS No.: 1333-86-4 CE No.:215-609-9	Spain	5 mg/m <sup>3</sup>
		USA	5 mg/m <sup>3</sup>

US source: OSHA's Permissible Exposure Limits – Annotated Tables <https://www.osha.gov/annotated-pels>; Spain source: National Institute of Health and Hygiene at Work: <http://www.insht.es>

To obtain updated specific limits, or limits in countries not listed in this Safety Data Sheet, please consult an industrial hygiene and safety professional or the respective regulatory authority. The levels shown in this document are provided for informational purposes only and are not binding.

## 8.2 - Exposure controls

### General measures:

We recommend consulting with an industrial hygiene and safety professional to monitor dust exposure. Always use tools with a water supply system. Always reduce the generation of airborne dust. Work in closed spaces with adequate ventilation that guarantee adequate air renewal in the workplace. Provide for appropriate cleaning and maintenance and adopt all necessary organizational measures. Dirty work clothes must be removed and washed separately.

### Personal protective equipment:



1. Respiratory protection: Type P3 according to standard EN 143:2001 and its revisions 143/AC EN 2002, EN 2005 143/AC, or N95, R95, P95 or higher according to the General Industry Standard of OSHA 29 CFR 1910.134, and approved by NIOSH, Australian AS/NZS 1716 P1, P2 or better protection) or equivalent protection meeting respective applicable local regulations, including working with water as a dust reducing agent during the preparation of COMPAC Quartz.



2. Hand protection: The use of mechanical protection is recommended to avoid cuts when handling slabs.



3. Eye protection. The use of eye protection in accordance with EN166:2001, OSHA General Industry Standard 29 CFR 1910.133, or equivalents complying with the respective applicable local regulations is recommended.



4. Skin protection: The use of skin protection is not necessary, but the use of work clothes that prevent contact of the dust with the skin is strongly recommended. Wash hands with soap and water to remove dust from processing before breaks and at the end of a shift.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

The information in this section refers to the end product, unless otherwise stated.

Appearance	Solid depending on commercial range
Physical state at 20°C	Solid
Colour	Depending on commercial range
Smell	Odourless
Olfactory threshold	N/A
pH	N/A
Density (EN 14617-1)	2250 – 2450 g/cm <sup>3</sup>
Absorption (EN 14617-1)	0,02 – 0,06%
Water solubility	N/A
Flexural strength (EN 14617-2)	50-75 MPa
Decomposition temperature	N/A
Melting/freezing point	N/A
Explosive properties	Not explosive
Flashpoint	Not flammable
Flammability	N/A

\* N/A: not applicable due to the nature of the product, with no information on possible hazards.

## 10 - STABILITY AND REACTIVITY

- Reactivity:

Not reactive.

- Chemical stability:

Stable.

- Possibility of hazardous reactions:

Unknown.

- Conditions to avoid:

Avoid contact with surfaces at temperatures above 80°C. Avoid strong impacts that may cause the material to break. Avoid use outdoors.

- Incompatible materials:

No data available.

- Hazardous Decomposition Products:

None known.

## 11 - TOXICOLOGICAL INFORMACION

Information on toxicological effects:

- Acute toxicity:

Classification criteria not met.

- Skin corrosion/irritation:

Classification criteria not met.

- Serious eye damage/eye irritation:

Classification criteria not met.

- Respiratory or skin sensitization:

Classification criteria not met.

- Specific target organ toxicity (STOT) - repeated exposure:

IQpro<sup>10</sup> products are classified as STOT RE 2 according to criteria defined in EC Regulation 1272/2008, with crystalline silica content between 1-10%. IQpro<sup>40</sup> and IQ are classified as STOT RE 1 under the same criteria, with crystalline silica content >10%.

Prolonged and/or massive inhalation of the respirable fraction of crystalline silica and mineral dust (<10 µM) may cause pneumoconiosis and pulmonary fibrosis such as silicosis and/or the worsening of other lung diseases. The main symptom of silicosis is loss of lung capacity. Prolonged exposure to the respirable fraction of crystalline silica may increase the risk of other ailments such as kidney disease.

- Specific Target Organ Toxicity (STOT) - Single Exposure:

This product is classified as STOT SE 3 according to criteria defined in EC Regulation 1272/2008.

- Carcinogenicity:

- Quartz and cristobalite ( $SiO_2$ ): Prolonged exposure to respirable crystalline silica dust may cause lung cancer.

Material classification	Crystalline silica (Quartz & Cristobalite)
Directive 2004/37/EC	Category 1A carcinogen
IARC	Group 1: Carcinogenic to humans
NTP	Known to be a carcinogen
OSHA	Yes. Regulated as a carcinogen
ACGIH	A2. Suspected human carcinogen
WES	6.7A Confirmed carcinogen
HCIS	Category 1A carcinogen



Depending on the design of the COMPAC Quartz material, small amounts of titanium dioxide (<3%) may be present in the product and may be released into the air along with dust during the mechanical processing of the material. Frequent inhalation of titanium dioxide fume/dust over a long period of time may increase the risk of developing lung disease. IARC and the European Chemicals Agency have classified TiO<sub>2</sub> as a category 2 carcinogen by inhalation.

- Germ cell mutagenicity:

Classification criteria not met.

- Reproductive toxicity:

Classification criteria not met.

- Aspiration Hazard:

Classification criteria not met.

## 12 – ECOLOGICAL INFORMATION

COMPAC Quartz does not contain agents or substances considered toxic to the environment.

## 13 – CONSIDERATIONS ON WASTE MANAGEMENT AND DISPOSAL

In accordance with Directive 2008/98/CE of the European Parliament and of the Council, of November 19, 2008 and with Law 7/2022, of April 8, and with Royal Decree 646/2020, of July 7, all off-spec or discarded material must be deposited in inert waste landfills.

The packaging material used for COMPAC Quartz should be disposed of in accordance with the regulations in force in each country. In general, packaging should be deposited in plastic or paper containers for later recycling.

## 14 - INFORMATION ON TRANSPORT

COMPAC Quartz is considered a non-dangerous product according to the criteria of regulations for transport by land, sea and air.

UN number	n/a	Sea transport	
Packaging group	none	IMDG / IMO	No restrictions
		Air transport	
ADR / RID	No restrictions	ICAO / IATA	No restrictions
TPC / TPF	No restrictions	ICAO / IATA	No restrictions

USA		
ADR / RID / IMO / ICAO / US DOT	Hazard class	Unregulated
	ID Number	Unregulated
	Packaging group	Unregulated

## 15 - REGULATORY INFORMATION

This COMPAC Quartz Safety Data Sheet has been drawn up pursuant to Regulation (EC) No. 1272/2008.

Labelling pursuant to European EEC directives.

## 16 - OTHER INFORMATION

It is recommended to consult COMPAC CORPORATE S.L. before using or supplying this material for uses other than those indicated above.

As of the date of review, the information provided in this document is correct to the best knowledge and understanding of SILICALIA PORTUGAL INDÚSTRIA E COMÉRCIO DE AGLOMERADOS DE PEDRA, S.A.; nevertheless, the company cannot guarantee these recommendations or suggestions when specific conditions of use are beyond its control. Furthermore, the content of this Safety Data Sheet should not be construed in any way as a recommendation to use products that violate national laws, safety practices or current patents.

Recipients of our materials must observe under their own responsibility all relevant local laws or regulations. Under no circumstances does the information contained in this Safety Data Sheet constitute a guarantee of specific properties nor does it establish a contractual relationship of any kind.

This COMPAC Quartz Safety Data Sheet has been drawn up in accordance with Regulation (EC) No. 1272/2008. For more information, consult the instructions in the Good Manufacturing Practices Guide published by the manufacturer, COMPAC, available at [www.compac.es](http://www.compac.es).

More information may be found at <http://www.nepsi.eu/> and in the Guide to Good Practices for workers' health protection.

SPAIN

PORTUGAL

UNITED STATES OF AMERICA

UNITED KINGDOM

SINGAPORE

UNITED ARAB EMIRATES

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compac.es

compac.us

marketing@compac.es

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